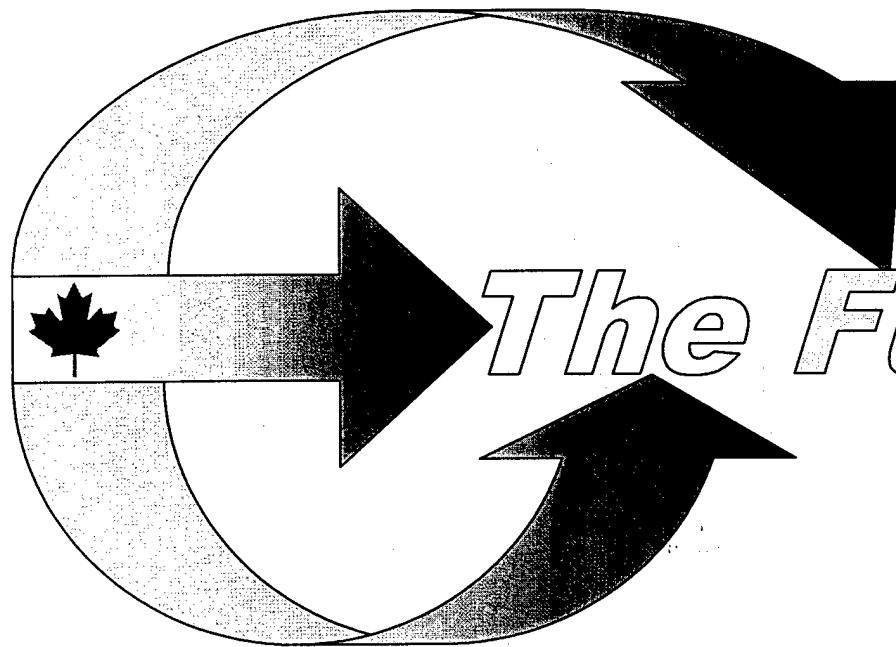


Bassarab, Lt Col Russ

CANADA'S EFFORTS TO DETERMINE



The Future Army



National
Defence

Défense
nationale

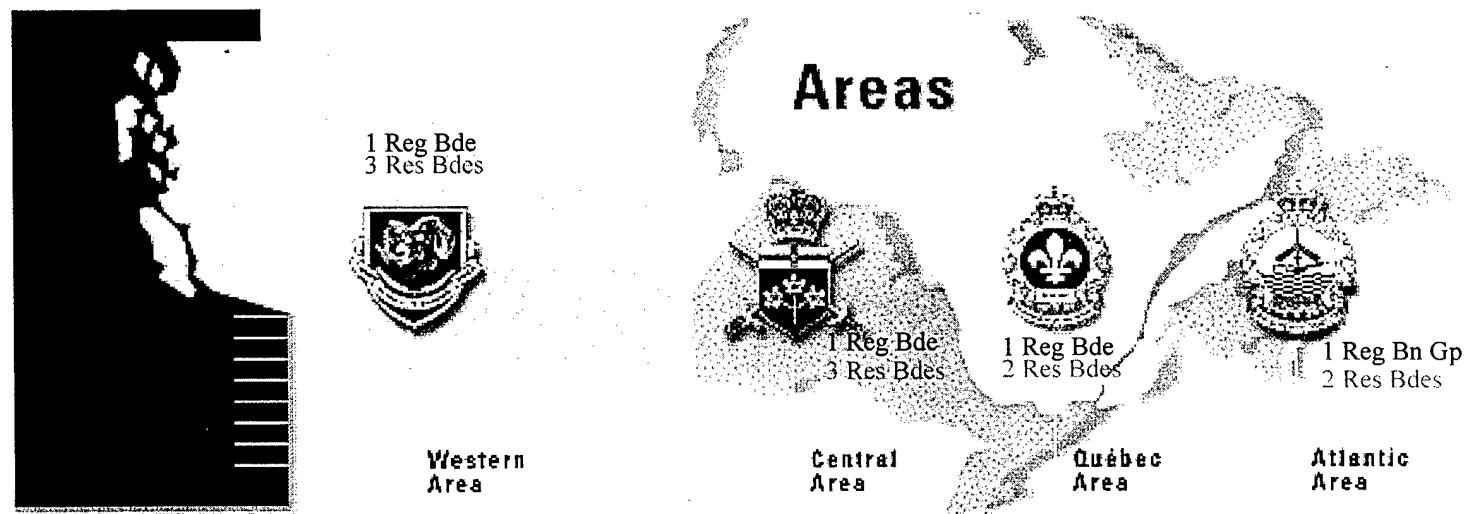


PRESENTATION

- First provide background to current Canadian Land Forces

- Outline the processes being used to develop the structural, doctrinal, training and equipment requirements of the Canadian Army in the 21st Century

LAND FORCE STRUCTURE



	Regular	Reserve	Civilian
Land Force Command HQ	283	71	56
Land Force Western Area	5,864	3,902	1,621
Land Force Central Area	4,642	5,410	1,039
Land Force Quebec Area	3,389	3,439	834
TOTALS	46,538	19,778	5,134



CURRENT OPERATIONAL COMMITMENTS

- 12 UN Operations
- 3 NATO Operations
- 1 MFO Operation
- 1 Disaster Relief Operation

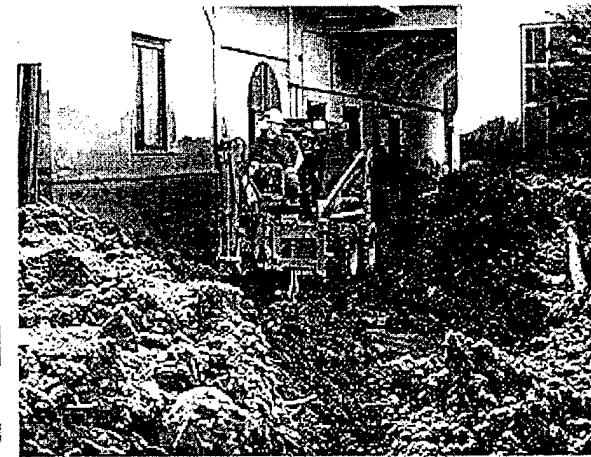


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CURRENT OPERATIONAL COMMITMENTS



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CURRENT VEHICLES/MAJOR EQUIPMENTS



Leopard Tank



M109 Medium Self-propelled Howitzer



Air Defense
Antitank System



M113A1 Armoured
Personnel Carrier



Bison



Armoured Vehicle
General Purpose



LAV-Reccce



BV 206 All-Terrain
Carrier



Heavy Logistic
Vehicle Wheeled



Medium Logistic
Vehicle Wheeled (MLVW)



Light Support Vehicle
Wheeled (LSVW)



Itlis Canadian Light
Utility Truck



CC-130
Hercules



Bell CH146
Griffon Helicopter



TOW Under Armour



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CURRENT ACQUISITION PROGRAMME

Priorities:

- ◆ Soldier Systems
- ◆ Information Systems
- ◆ Vehicle Mobility Systems
- ◆ Mine Defence Systems
- ◆ Training Systems
- ◆ Firepower Systems

Major Projects:

- ◆ Clothe The Soldier
- ◆ TCCS
- ◆ IPCE
- ◆ ACV
- ◆ APC Replacement
- ◆ Medium Indirect Fire



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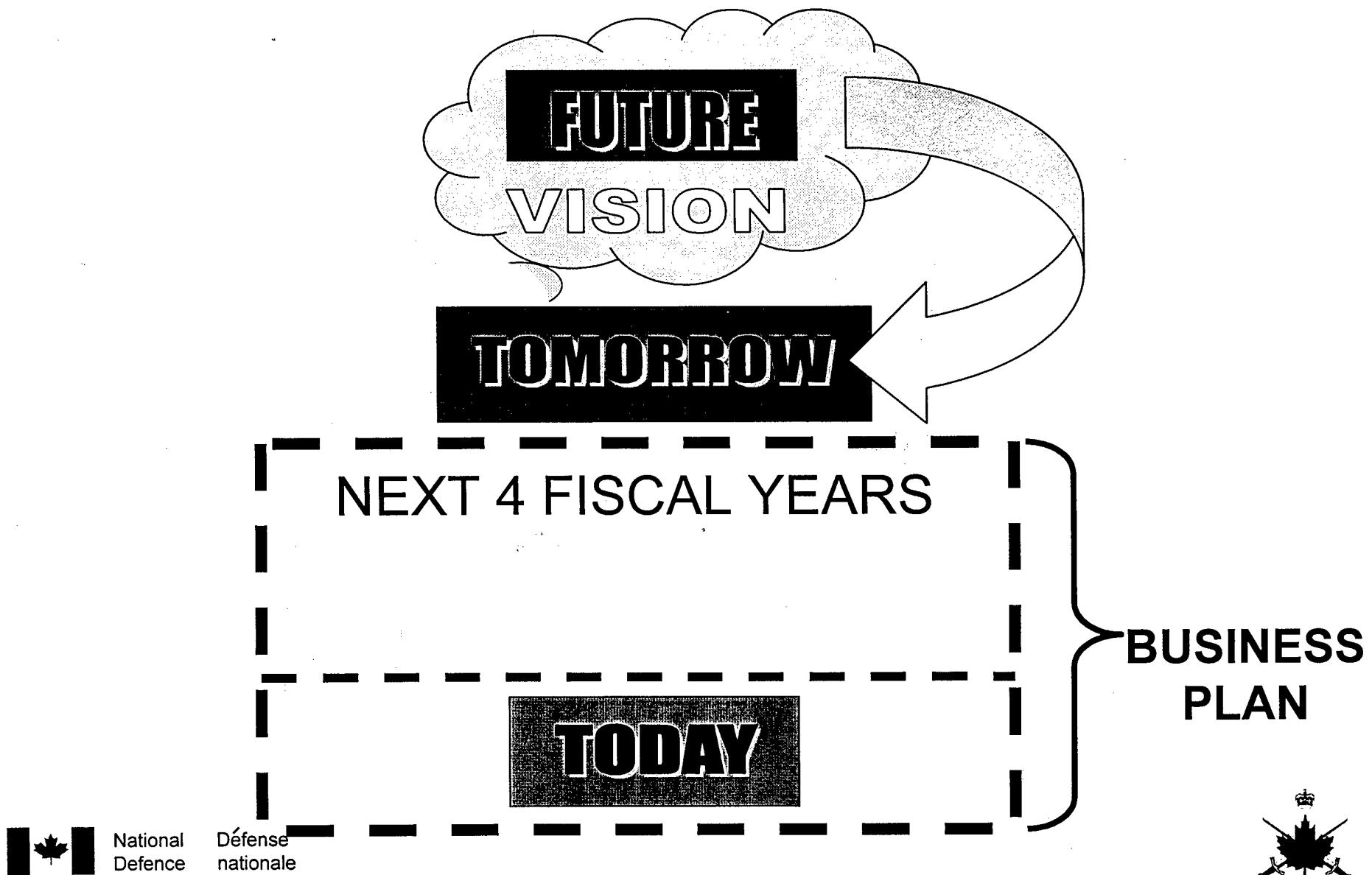
PREVIOUS LAND FORCE DEVELOPMENT PROCESSES

UNSUITABLE

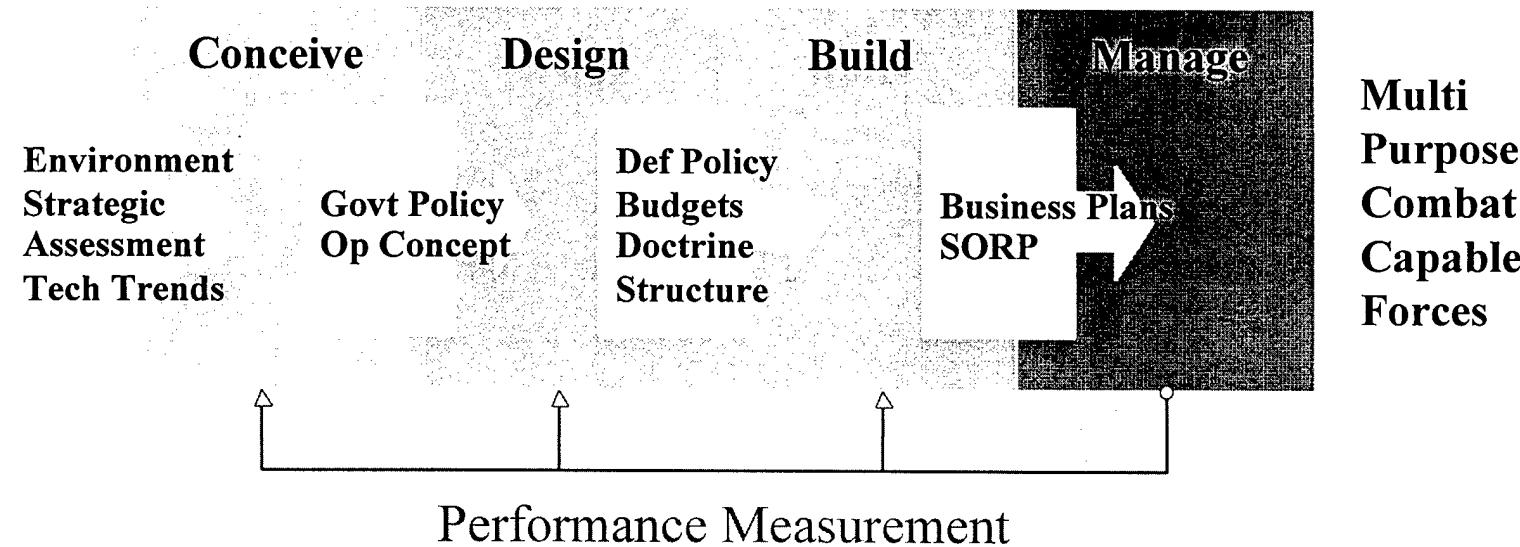
- DESIGNED FOR EVOLUTIONARY CHANGE
- CATERED TO ALL ARMY INTEREST GROUPS
- LITTLE CONCEPTUAL THINKING
- NO RESOURCE CONSTRAINTS
- INPUT LARGELY FROM WITHIN ARMY



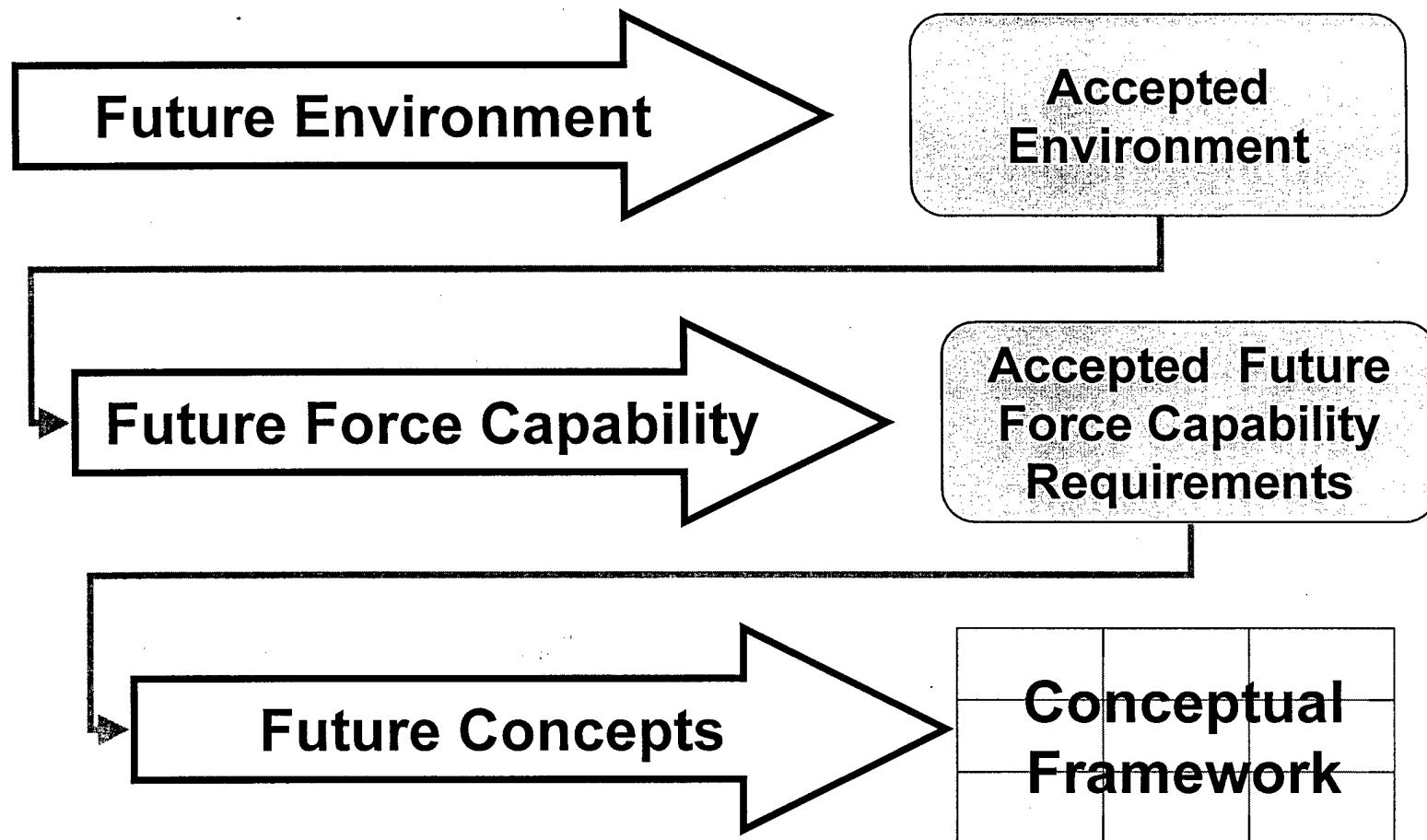
THE THREE ARMIES



LAND FORCE DEVELOPMENT PROCESS



THE FUTURE ARMY PROCESS



Futures Team

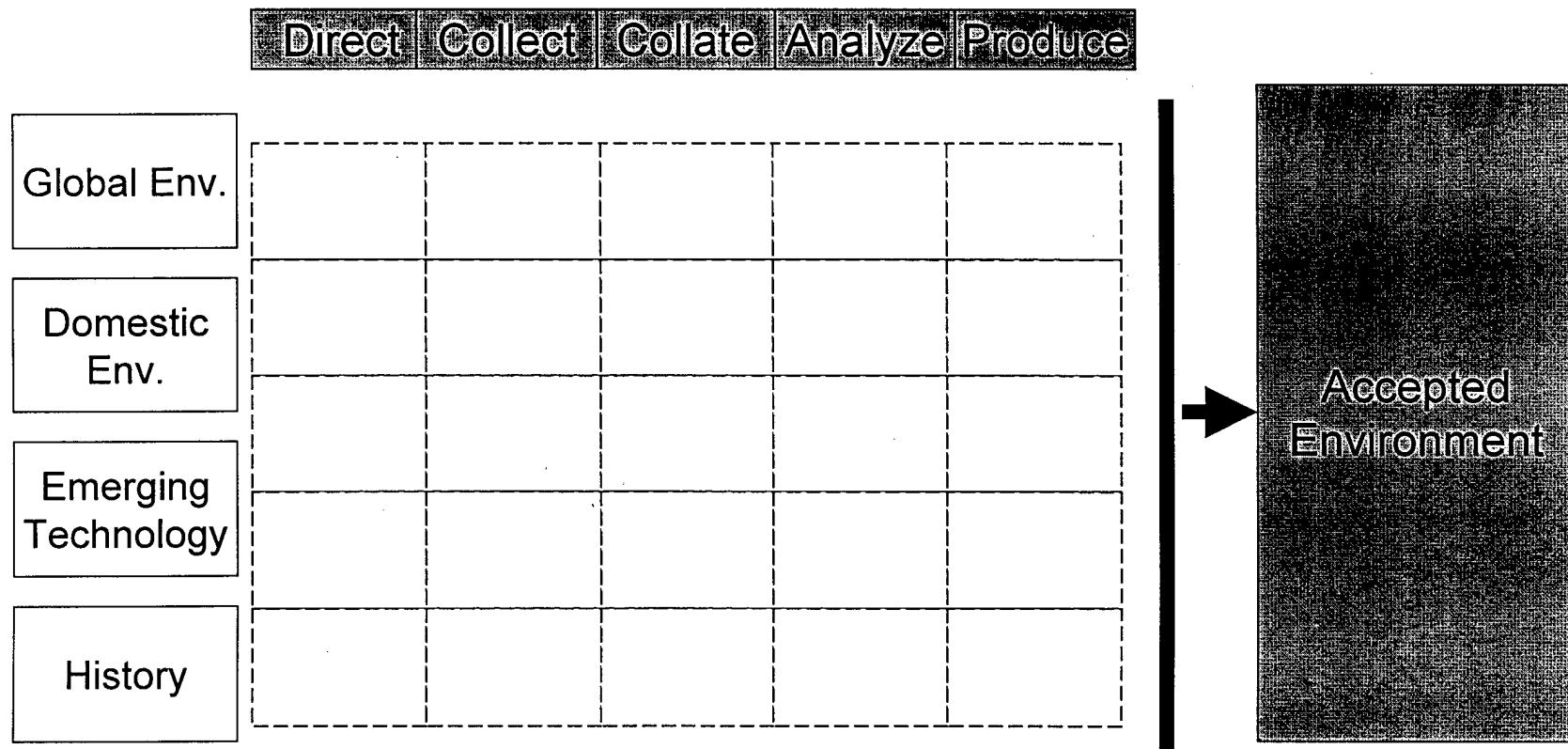


National
Defence

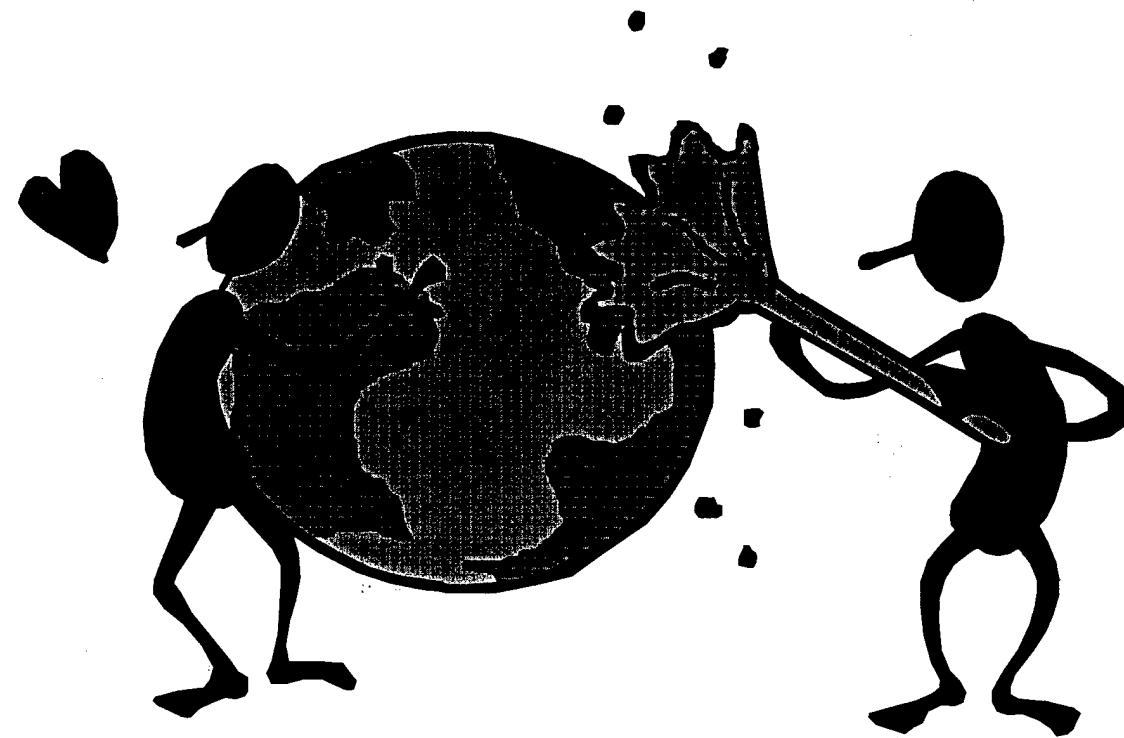
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DETERMINING THE FUTURE ENVIRONMENT



FUTURE GLOBAL OUTLOOK



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POST COLD WAR ENVIRONMENT

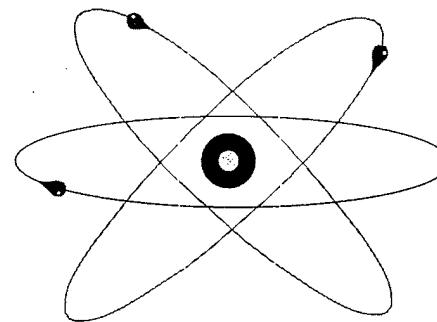
REGIONAL AND
ETHNIC CONFLICT



NEW WARRIOR
CLASS



TERRORISM



NUCLEAR THREAT



National
Defence Défense
nationale



FUTURE GLOBAL OUTLOOK

- Ethnic, Religious and Nationalist Rivalries
- Emergence of New Warrior Class
- Economic and Ecological Pressures
- Proliferation of High Tech Weapons
- Global Economic and Information Dependencies
- Continued Risk of Major Regional Conflicts
- Increased Frequency of Non-traditional Forms of Warfare
- Use of Criminal & Terrorist Acts by State and Non-state Bodies



TRENDS IN FORCE DEVELOPMENT

- Forces Capable of Warfighting in Major Regional Conflicts
- Forces Capable of Conducting Specialized Operations

CHANGING CHARACTER OF WAR

1995

- ✓ Forces prep to fight linear, defensive ops
- ✓ Strong allied commitment
- ✓ Fighting with legacy systems
- ✓ Thick logistical LOCs
- ✓ Attrition of attacking forces

2020

- ✓ Nonlinear, simultaneous ops
- ✓ Challenged to maintain strong coalition
- ✓ Complementary joint forces
- ✓ Precision ops, info dominance
- ✓ Rapid decisive ops to disintegrate enemy



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DOMESTIC CONSIDERATIONS



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DOMESTIC CONSIDERATIONS

- Fiscal Reality
- Shifting Demographics
- Decline of Deference
- Appeal of Peacekeeping

DOMESTIC CONSIDERATIONS



Appeal of Peacekeeping



Internal Security



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ALLIANCE AND COALITION WARFARE



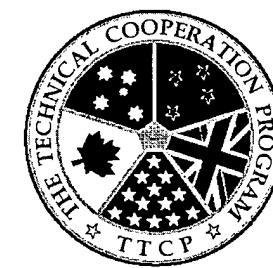
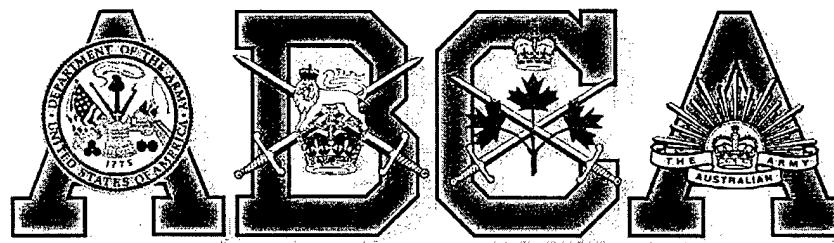
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Défense nationale



ALLIED FORCE DEVELOPMENT



North Atlantic Treaty Organisation
Organisation du Traité de l'Atlantique Nord



- Conform to Allied Operating Procedures
- Monitor what Allies are doing



ALLIED FORCE DEVELOPMENT

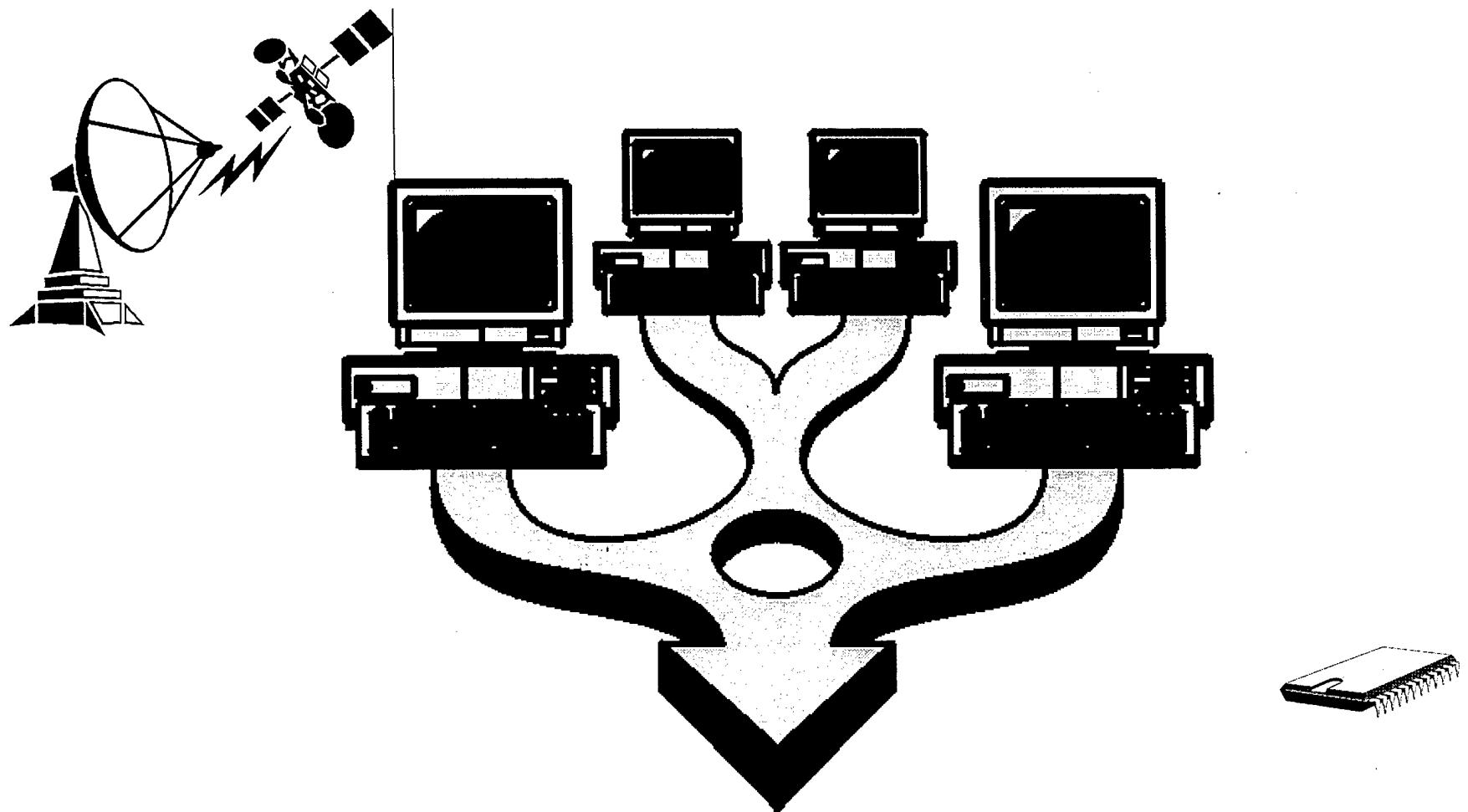
- **NATO Land Operations (LO) 2020**
- **U.S. Army After Next (AAN)**
- **British Army 2000 (BA 2000)**
- **Australian Army 21 (A21)**



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EMERGING TECHNOLOGIES



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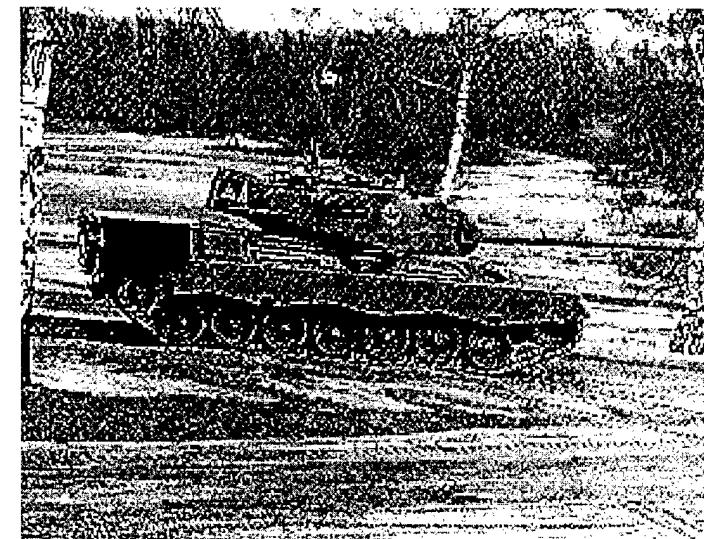
606



EMERGING TECHNOLOGIES

- Command and Control Automation
- Situational Awareness
- Information Operations
- Lethality and Accuracy
- Stealth
- Soldier Performance
- Exploitation of Space
- Robotics
- Non-lethal Weapons

TECHNOLOGY IN THE CANADIAN ARMY

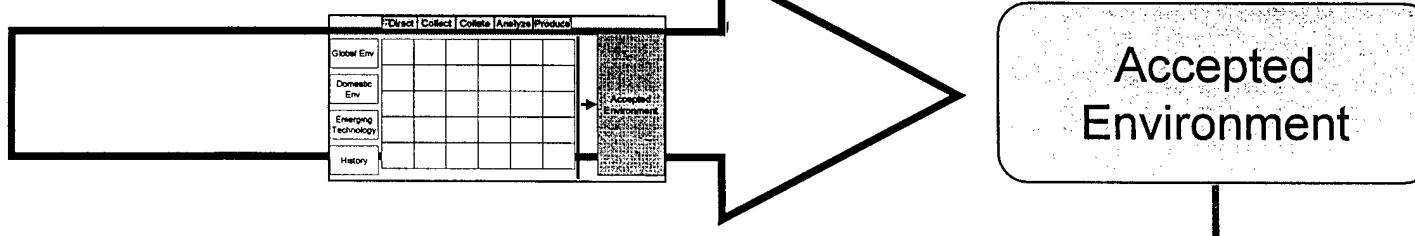


SUMMARY OF ENVIRONMENTAL FACTORS

- ADVANCE OF TECHNOLOGY
- GREATER GLOBAL INSTABILITY
- EMERGENCE OF INFORMATION AGE
- RESOURCE CONSTRAINTS
- GLOBALIZATION/COALITION OPS
- EVOLUTION OF MILITARY ART
- INTERDEPENDENCE
- EVOLUTION OF SOCIAL ORDER

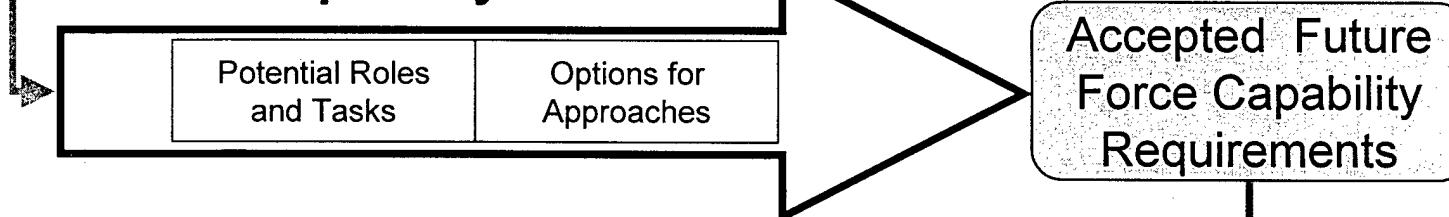


Future Environment



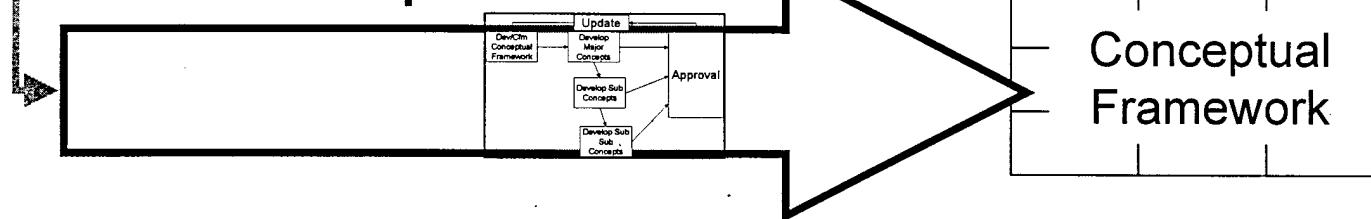
Accepted
Environment

Future Capability



Accepted Future
Force Capability
Requirements

Future Concepts



Conceptual
Framework

Futures Team

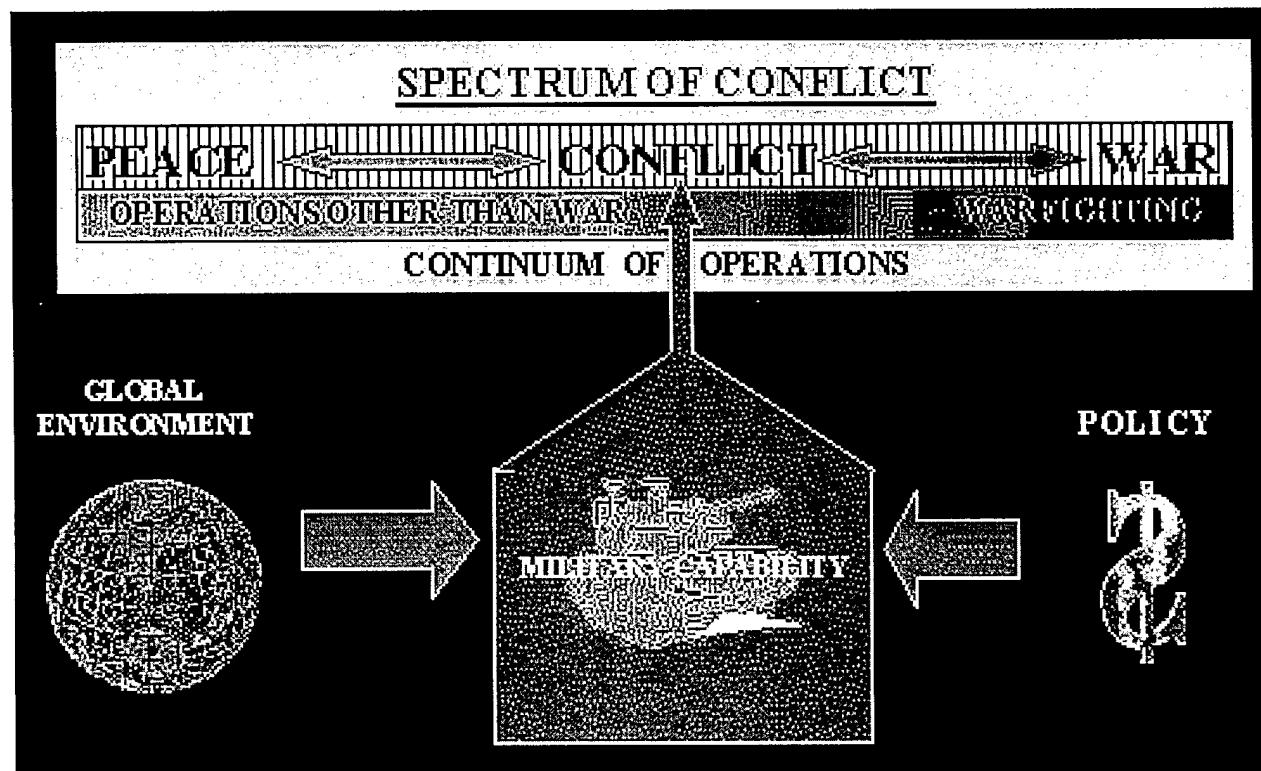
The Future
Army

Implementation
Concepts

The Army of
Tomorrow

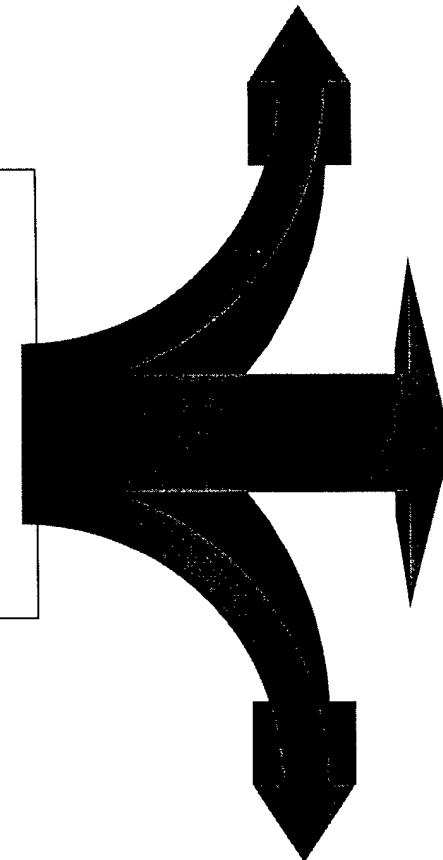


THE CHALLENGE OF DEVELOPING MILITARY CAPABILITY

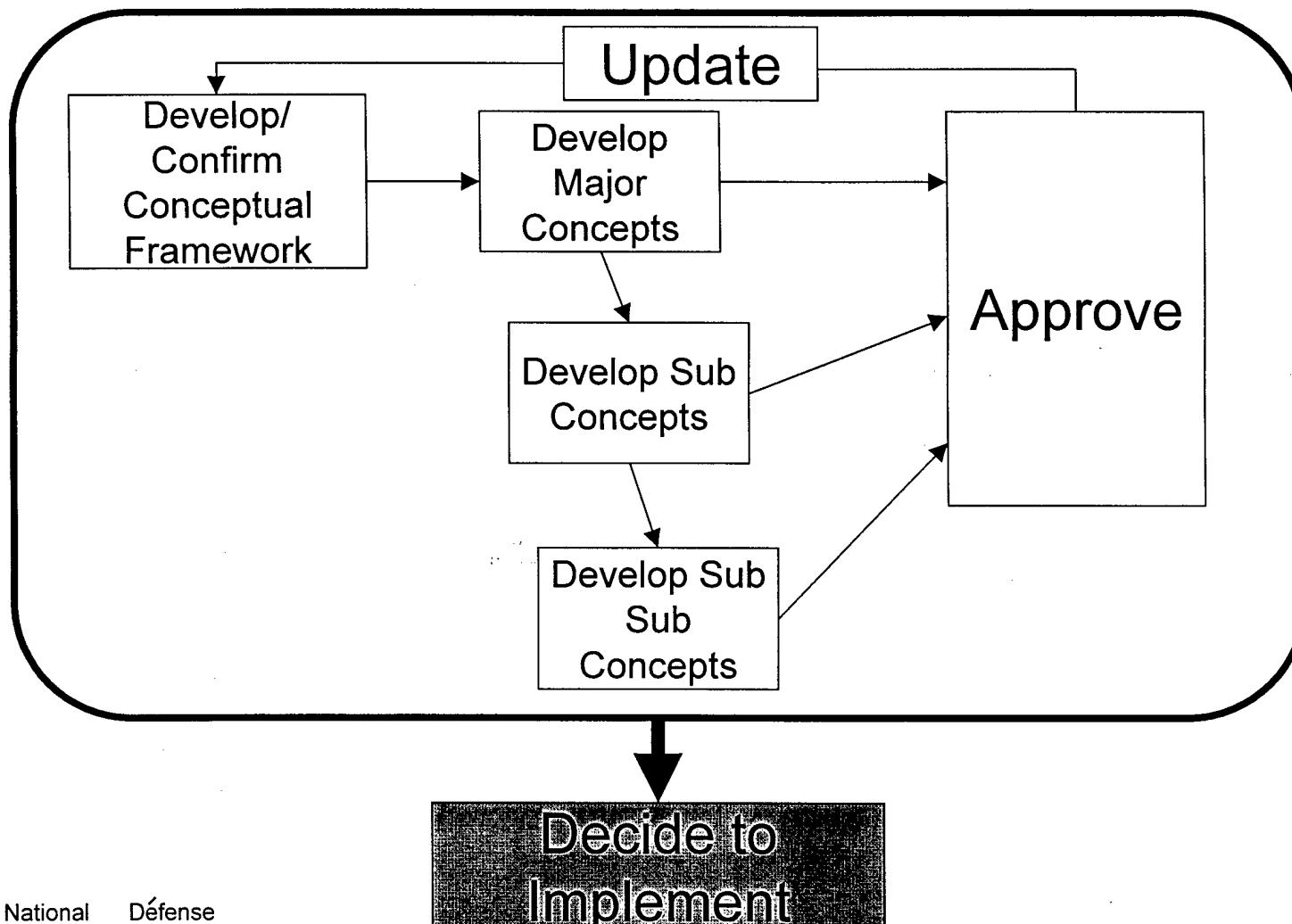


DEVELOPING FUTURE FORCE CAPABILITY REQUIREMENTS

Potential Roles and Tasks	Options for Approaches
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DEVELOPING CONCEPTS



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FUTURE ARMY STAFF FULL TIME

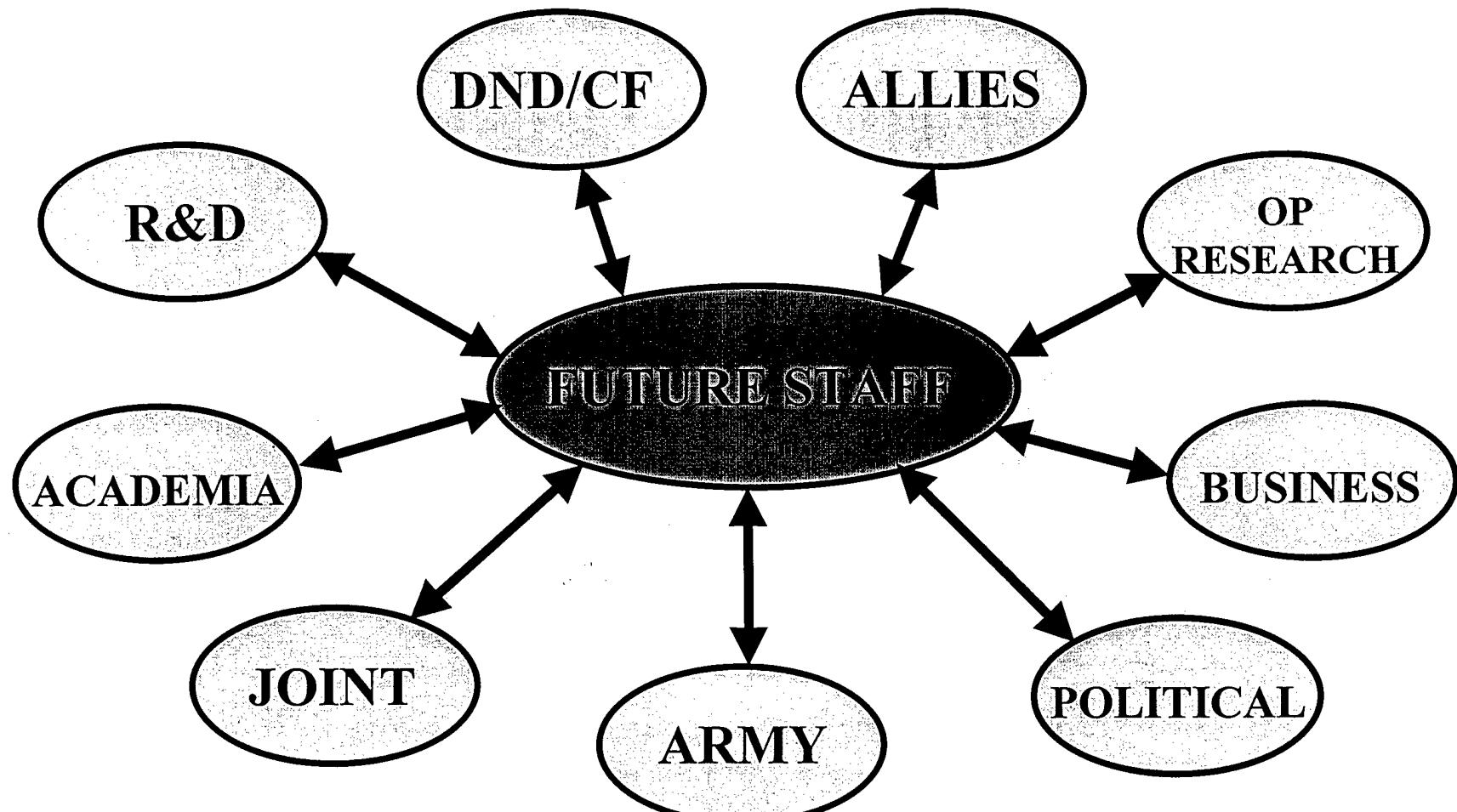
- CONCEPTS - DLSC - 5 OFFICERS
- SCIENCE & TECHNOLOGY -
DRDB - 1 SCIENTIST
- OPERATIONAL RESEARCH -
DGOR - 2 SCIENTISTS



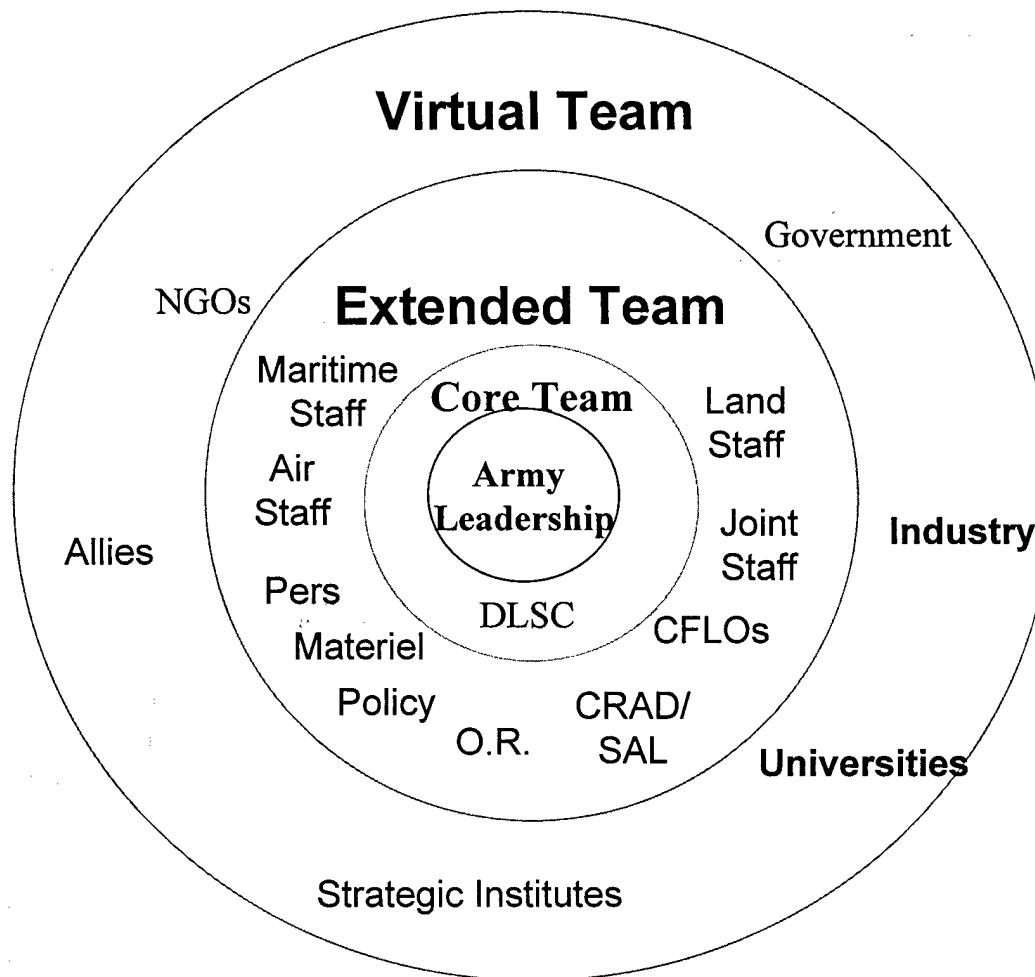
LEADERSHIP OF THE FUTURE ARMY PROCESS

- **RESPONSIBLE TO - ARMY COUNCIL**
- **DIRECTION - COMDT CLFCSC**
- **INTERIM STEERING GROUP - COMD
1 DIV, SAL, DGOR, COMDT CLFCSC**

THE VIRTUAL CENTRE OF KNOWLEDGE



ORGANIZATION OF FUTURE ARMY TEAM



HARNESSING OF INTELLECT

- SERVING MEMBERS
- DEFENCE SCIENTIFIC & OR
- ACADEMIC & BUSINESS
- ALLIES



EXPERIMENTATION

- DEFENCE RESEARCH LABS
- TEST & EVALUATION
- OPERATIONAL RESEARCH
- SIMULATION

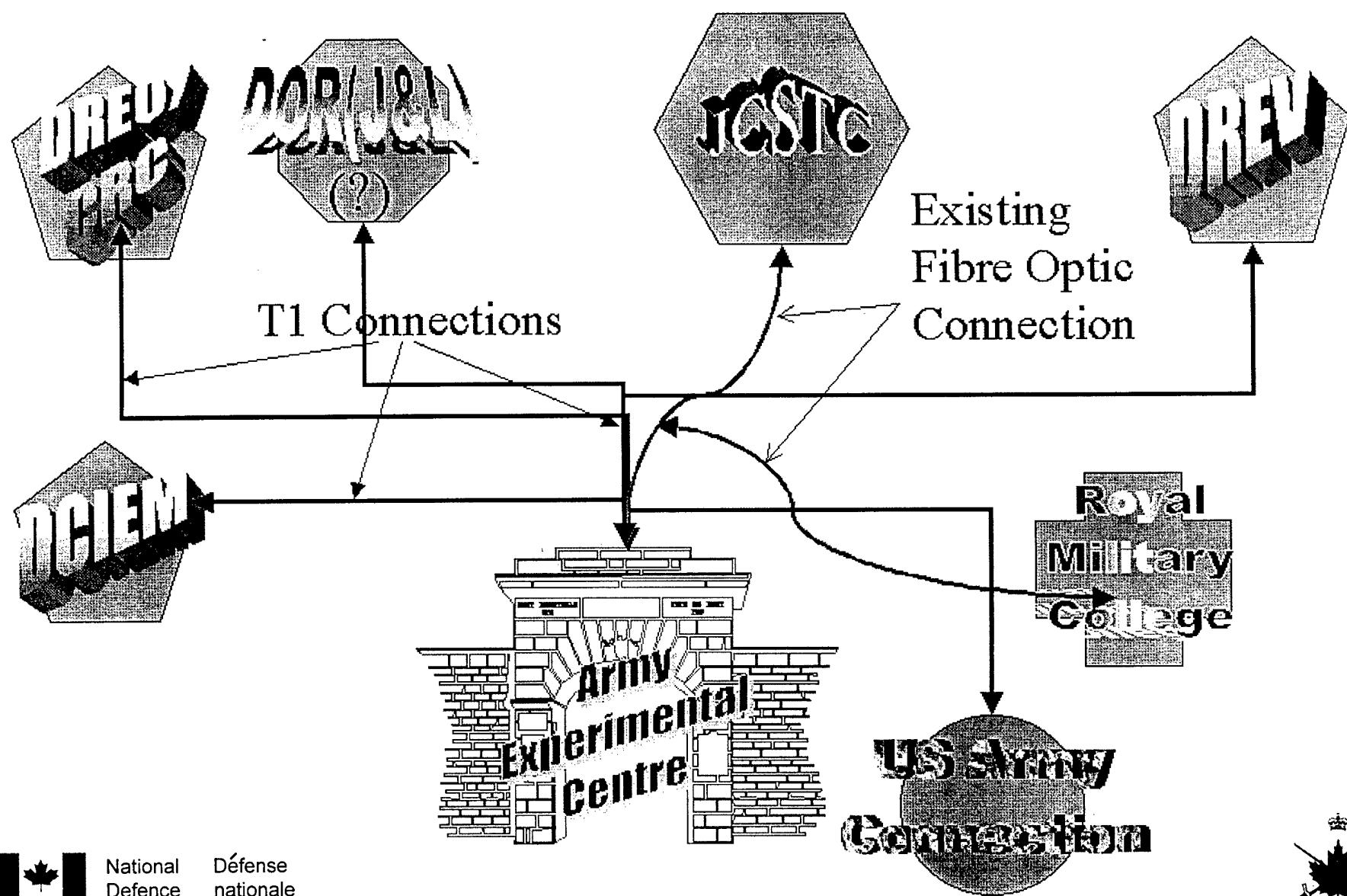


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THE ARMY EXPERIMENTAL CENTRE



CONCLUSION



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